

AMENDMENTS TO THE CLAIMS

Please amend the claims to read as follows:

1. (currently amended) Transdermal delivery system (TDS) having
a carrier layer (~~cover layer~~) impermeable to the substances/active ingredients a
substance to be delivered,
a membrane permeable to the substances/active ingredients said substance to be
delivered,
a reservoir containing substances/active ingredients said substance to be delivered, the
reservoir being provided between the carrier layer and the membrane, and
a removable film,
wherein the carrier layer and the membrane comprise electrodes such that the electrode(s) of
the membrane serve(s) as counterelectrode(s) to the ~~electrode (the electrodes)~~ electrode(s) of
the carrier layer.
2. (currently amended) Delivery system according to claim 1,
~~characterised in that~~ wherein the electrodes of the carrier layer are arranged in the form of
one or more electrode network(s) on the carrier layer, each electrode network having a
plurality of individual electrodes, ~~and the membrane comprises the counterelectrodes.~~
3. (currently amended) Delivery system according to claim 1 ~~or claim 2,~~
~~characterised in that it comprises~~ further comprising:
 - (a) a battery,
 - (b) a microchip that (i) is fixed to the carrier layer or (ii) is accommodated with
the battery in an external housing and is connected to the electrodes ~~of the electrode networks~~
of the carrier layer and of the membrane by means of flexible wiring systems, and
 - (c) a reading and writing device for writing to the microchip.
4. (currently amended) Delivery system according to ~~any one of the~~
~~preceding claims, characterised by~~ claim 1, comprising a carrier layer having a thickness in
the range from 10 µm to 1000 µm.
5. (currently amended) Delivery system according to ~~any one of the~~
~~preceding claims, characterised in that~~ claim 1, wherein the substance/active ingredient

substance reservoir is ~~formed by~~ comprises a contact adhesive, a gel or an immobilised solution for the ~~substance/the active ingredient~~ substance to be delivered.

6. (currently amended) Delivery system according to ~~any one of the preceding claims, characterised in that~~ claim 1, wherein the electrode network(s) electrodes of the carrier layer and/or of the membrane has/have been applied by printing.

7. (currently amended) Delivery system according to ~~any one of the preceding claims, characterised in that, where~~ claim 2, wherein there is a plurality of electrode networks, each electrode network is actuatable individually or a plurality of electrode networks are actuatable in groups and/or each individual electrode in a network is actuatable individually or a plurality of individual electrodes in a network are actuatable in groups.

8. (currently amended) Delivery system according to ~~any one of the preceding claims, characterised in that~~ claim 1, wherein the electrically conductive membrane permeable to a ~~substance/an active ingredient~~ said substance is electrically conductive and is a metal lattice, or a polymer lattice on which a conductive layer has been vapour-deposited, or a perforated conductive layer.

9. (currently amended) Delivery system according to ~~any one of the preceding claims, characterised in that~~ claim 1, wherein the electrically conductive membrane permeable to a ~~substance/an active ingredient~~ said substance is electrically conductive and has uninterrupted conductivity or has conductive areas that are separated by non-conductive areas, so that one or more networks of conductive areas are formed.

10. (currently amended) Delivery system according to claim 9, ~~characterised in that~~ wherein each electrode of the carrier layer corresponds to a counterelectrode with which it is uniquely associated.

11. (currently amended) Delivery system according to ~~any one of the preceding claims, characterised in that~~ claim 3, wherein the microchip is securely bonded to the carrier layer.

12. (currently amended) Delivery system according to ~~any one of the preceding claims, characterised in that~~ claim 3, wherein the microchip is a chip that is programmable according to a prescription.

13. (currently amended) Delivery system according to ~~any one of the preceding claims, characterised in that~~ claim 3, wherein the battery is a button battery or a sheet battery.

14. (currently amended) Delivery system according to ~~any one of the preceding claims, characterised in that~~ claim 3, wherein the battery is provided in a pocket in the carrier layer.

15. (currently amended) Delivery system according to ~~any one of the preceding claims, characterised in that there is applied to the side of the membrane remote from the substance/active ingredient reservoir~~ claim 1, wherein a layer consisting of comprising a pressure pressure-sensitive contact adhesive for attaching the delivery system to ~~the skin and for improving contact with the skin~~ is applied to the side of the membrane remote from the reservoir.